BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Improvements to roads and drains at Mariyamma Block and surrounding areas in ward no.11 in Kuvempunagar

PRE MEASUREMENT SHEET

FIRST and FINAL BILL

CLIENT:Executive Engineer, Karnataka Rural infrastructure development Ltd #280, 59th Cross road, 17th 'C'Main Road 3rd Y Block, Rajajinagara, Bangalore-560010

Chainage		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
Item No. 01		Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications and as per the directions of the Engineer in charge							
Measurements Taken On :									
		Desilt for Drain							
		Desilt for Drain							
		Cross Road 6							
		LHS							
0	15		Cum	1	15.00	0.75	0.30	3.38	
15	30		Cum	1	15.00	0.75	0.30	3.38	
30	41.2		Cum	1	11.20	0.75	0.30	2.52	
		RHS							
0	15		Cum	1	15.00	0.75	0.30	3.38	
15	30		Cum	1	15.00	0.75	0.30	3.38	
30	39.2		Cum	1	9.20	0.75	0.30	2.07	
		Cross Road 7							
		LHS							
0	15		Cum	1	15.00	0.75	0.30	3.38	
15	30		Cum	1	15.00	0.75	0.30	3.38	
30	45		Cum	1	15.00	0.75	0.30	3.38	
45	51.4		Cum	1	6.40	0.75	0.30	1.44	
		RHS							
0	15		Cum	1	15.00	0.75	0.30	3.38	
15	30		Cum	1	15.00	0.75	0.30	3.38	
30	45		Cum	1	15.00	0.75	0.30	3.38	
45	53		Cum	1	8.00	0.75	0.30	1.80	
		Cross Road 8							
		LHS							
0	15		Cum	1	15.00	0.75	0.30	3.38	
15	30.1		Cum	1	15.10	0.75	0.30	3.40	
		RHS							
0	15		Cum	1	15.00	0.75	0.30	3.38	

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Improvements to roads and drains at Mariyamma Block and surrounding areas in ward no.11 in Kuvempunagar

PRE MEASUREMENT SHEET

FIRST and FINAL BILL

CLIENT:Executive Engineer, Karnataka Rural infrastructure development Ltd #280, 59th Cross road, 17th 'C'Main Road 3rd Y Block, Rajajinagara, Bangalore-560010

Chainage		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
15	30		Cum	1	15.00	0.75	0.30	3.38	
30	37.1		Cum	1	7.10	0.75	0.30	1.60	
		Cross Road 9							
		LHS							
0	15		Cum	1	15.00	0.75	0.30	3.38	
15	30		Cum	1	15.00	0.75	0.30	3.38	
30	45		Cum	1	15.00	0.75	0.30	3.38	
45	51.1		Cum	1	6.10	0.75	0.30	1.37	
		RHS							
0	15		Cum	1	15.00	0.75	0.30	3.38	
15	30		Cum	1	15.00	0.75	0.30	3.38	
30	45		Cum	1	15.00	0.75	0.30	3.38	
45	51.1		Cum	1	6.10	0.75	0.30	1.37	
		Kuvempu Nagar							
		Cross Road							
0	30		Cum	1	30.00	0.60	0.60	10.80	
30	60		Cum	1	30.00	0.60	0.60	10.80	
60	90		Cum	1	30.00	0.60	0.60	10.80	
90	120		Cum	1	30.00	0.60	0.60	10.80	
120	150		Cum	1	30.00	0.60	0.60	10.80	
150	172		Cum	1	22.00	0.60	0.60	7.92	
		Flagging Course							
		Kuvempu Nagar							
		Cross Road							
0	30		Cum	1	30.00	0.30	0.60	5.40	
30	60		Cum	1	30.00	0.30	0.60	5.40	
60	90		Cum	1	30.00	0.30	0.60	5.40	
90	120		Cum	1	30.00	0.30	0.60	5.40	
120	150		Cum	1	30.00	0.30	0.60	5.40	
150	172		Cum	1	22.00	0.30	0.60	3.96	

PRAPRASAD CONSULTANTS BANGALORE

Contactor PMC Assistant Engineer Assistant Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Improvements to roads and drains at Mariyamma Block and surrounding areas in ward no.11 in Kuvempunagar

PRE MEASUREMENT SHEET

FIRST and FINAL BILL

CLIENT:Executive Engineer, Karnataka Rural infrastructure development Ltd #280, 59th Cross road, 17th 'C'Main Road 3rd Y Block, Rajajinagara, Bangalore-560010

Chainage		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
		New CC Drain							
		Cross Road 4							
		LHS							
0	15		Cum	1	15.00	0.90	0.75	10.13	
15	30		Cum	1	15.00	0.90	0.75	10.13	
30	45		Cum	1	15.00	0.90	0.75	10.13	
45	56.3		Cum	1	11.30	0.90	0.75	7.63	
		Cross Road 5							
		LHS							
0	15		Cum	1	15.00	0.90	1.00	13.50	
15	30		Cum	1	15.00	0.90	1.00	13.50	
30	42		Cum	1	12.00	0.90	1.00	10.80	
		RHS							
0	15		Cum	1	15.00	0.90	1.00	13.50	
15	30		Cum	1	15.00	0.90	1.00	13.50	
30	43		Cum	1	13.00	0.90	1.00	11.70	
		Main Road							
		LHS							
0	15		Cum	1	15.00	1.10	1.00	16.50	
15	30.8		Cum	1	15.80	1.10	1.00	17.38	
		Main Road Dead End							
		Lhs							
0	15		Cum	1	15.00	1.10	1.00	16.50	
15	30		Cum	1	15.00	1.10	1.00	16.50	
30	44		Cum	1	14.00	1.10	1.00	15.40	
		Rhs							
0	18		Cum	1	18.00	1.10	1.00	19.80	
23.9	42.3	18 to 23.9 Culvert	Cum	1	18.40	1.10	1.00	20.24	
		Devappa Block							
		Cross road -1							
0	15		Cum	1	15.00	0.90	1.00	13.50	
15	30		Cum	1	15.00	0.90	1.00	13.50	
30	45		Cum	1	15.00	0.90	1.00	13.50	
45	60		Cum	1	15.00	0.90	1.00	13.50	
60	73.5		Cum	1	13.50	0.90	1.00	12.15	

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Improvements to roads and drains at Mariyamma Block and surrounding areas in ward no.11 in Kuvempunagar

PRE MEASUREMENT SHEET

FIRST and FINAL BILL

CLIENT:Executive Engineer, Karnataka Rural infrastructure development Ltd #280, 59th Cross road, 17th 'C'Main Road 3rd Y Block, Rajajinagara, Bangalore-560010

Chainage		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
		Cross road -2							
0	15		Cum	1	15.00	0.90	1.00	13.50	
15	30		Cum	1	15.00	0.90	1.00	13.50	
30	45		Cum	1	15.00	0.90	1.00	13.50	
45	60		Cum	1	15.00	0.90	1.00	13.50	
60	73.5		Cum	1	13.50	0.90	1.00	12.15	
							TOTAL	**541.70**	

PRAPRASAD CONSULTANTS BANGALORE

Contactor PMC Assistant Engineer Assistant Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Improvements to roads and drains at Mariyamma Block and surrounding areas in ward no.11 in Kuvempunagar

PRE MEASUREMENT SHEET

FIRST and FINAL BILL

CLIENT:Executive Engineer, Karnataka Rural infrastructure development Ltd #280, 59th Cross road, 17th 'C'Main Road 3rd Y Block, Rajajinagara, Bangalore-560010

Chainage		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
Item No. 02		Removing and refixing stone slabs of drains and pointing in CM (1:3) and as per the directions of the Engineer in charge							
Measurements Taken On :									
		Kuvempu Nagar							
		Cross Road							
4	27		Sqm	1	23	1.8		41.40	
33	54		Sqm	1	21	1.8		37.80	
66	86		Sqm	1	20	1.8		36.00	
93	117		Sqm	1	24	1.8		43.20	
126.6	146		Sqm	1	19.4	1.8		34.92	
155	168		Sqm	1	13	1.8		23.40	
							TOTAL	216.72	

Contractor PMC Assistant Engineer Assistant Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Improvements to roads and drains at Mariyamma Block and surrounding areas in ward no.11 in Kuvempunagar

PRE MEASUREMENT SHEET

FIRST and FINAL BILL

CLIENT:Executive Engineer, Karnataka Rural infrastructure development Ltd #280, 59th Cross road, 17th 'C'Main Road 3rd Y Block, Rajajinagara, Bangalore-560010

Chainage		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
Item no.04		Providing and laying in position plain cement concrete of Mix 1:4:8 with OPC @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per specifications. and as per the directions of the Engineer in charge							
Measurements Taken On :									
		Cross Road 6							
		LHS							
0	15		Cum	1	15.00	0.75	0.15	1.69	
15	30		Cum	1	15.00	0.75	0.15	1.69	
30	41.2		Cum	1	11.20	0.75	0.15	1.26	
		RHS							
0	15		Cum	1	15.00	0.75	0.15	1.69	
15	30		Cum	1	15.00	0.75	0.15	1.69	
30	39.2		Cum	1	9.20	0.75	0.15	1.04	
		Cross Road 7							
		LHS							
0	15		Cum	1	15.00	0.75	0.15	1.69	
15	30		Cum	1	15.00	0.75	0.15	1.69	
30	45		Cum	1	15.00	0.75	0.15	1.69	
45	51.4		Cum	1	6.40	0.75	0.15	0.72	
		RHS							
0	15		Cum	1	15.00	0.75	0.15	1.69	
15	30		Cum	1	15.00	0.75	0.15	1.69	
30	45		Cum	1	15.00	0.75	0.15	1.69	
45	53		Cum	1	8.00	0.75	0.15	0.90	
		Cross Road 8							
		LHS							
0	15		Cum	1	15.00	0.75	0.15	1.69	
15	30.1		Cum	1	15.10	0.75	0.15	1.70	

CRAPRASAD CONSULTANTS BANGALORE

Contactor PMC Assistant Engineer Assistant Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Improvements to roads and drains at Mariyamma Block and surrounding areas in ward no.11 in Kuvempunagar

PRE MEASUREMENT SHEET

FIRST and FINAL BILL

CLIENT:Executive Engineer, Karnataka Rural infrastructure development Ltd #280, 59th Cross road, 17th 'C'Main Road 3rd Y Block, Rajajinagara, Bangalore-560010

Chainage		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
		RHS							
0	15		Cum	1	15.00	0.75	0.15	1.69	
15	30		Cum	1	15.00	0.75	0.15	1.69	
30	37.1		Cum	1	7.10	0.75	0.15	0.80	
		Cross Road 9							
		LHS							
0	15		Cum	1	15.00	0.75	0.15	1.69	
15	30		Cum	1	15.00	0.75	0.15	1.69	
30	45		Cum	1	15.00	0.75	0.15	1.69	
45	51.1		Cum	1	6.10	0.75	0.15	0.69	
0	0	RHS							
0	15		Cum	1	15.00	0.75	0.15	1.69	
15	30		Cum	1	15.00	0.75	0.15	1.69	
30	45		Cum	1	15.00	0.75	0.15	1.69	
45	51.1		Cum	1	6.10	0.75	0.15	0.69	
		Kuvempu Nagar							
		Cross Road							
0	30		Cum	1	30.00	0.30	0.15	1.35	
30	60		Cum	1	30.00	0.30	0.15	1.35	
60	90		Cum	1	30.00	0.30	0.15	1.35	
90	120		Cum	1	30.00	0.30	0.15	1.35	
120	150		Cum	1	30.00	0.30	0.15	1.35	
150	172		Cum	1	22.00	0.30	0.15	0.99	
		For Road							
		Cross Road 1				Avg			
0	15		Cum	1	15.00	2.50	0.15	5.63	
15	30		Cum	1	15.00	2.45	0.15	5.51	
30	38.7		Cum	1	8.70	3.35	0.15	4.37	
		Cross Road 2							
0	15		Cum	1	15.00	3.40	0.15	7.65	
15	30		Cum	1	15.00	3.00	0.15	6.75	
30	45		Cum	1	15.00	2.55	0.15	5.74	
45	62		Cum	1	17.00	3.00	0.15	7.65	

GRAPRASAD CONSULTANTS BANGALORE

Contactor PMC Assistant Engineer Assistant Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Improvements to roads and drains at Mariyamma Block and surrounding areas in ward no.11 in Kuvempunagar

PRE MEASUREMENT SHEET

FIRST and FINAL BILL

CLIENT:Executive Engineer, Karnataka Rural infrastructure development Ltd #280, 59th Cross road, 17th 'C'Main Road 3rd Y Block, Rajajinagara, Bangalore-560010

Chainage		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
		Cross Road 6							
0	15		Cum	1	15.00	2.48	0.15	5.57	
15	30		Cum	1	15.00	2.55	0.15	5.74	
30	40.2		Cum	1	10.20	2.73	0.15	4.17	
		Cross Road 7							
0	15		Cum	1	15.00	2.98	0.15	6.69	
15	30		Cum	1	15.00	3.10	0.15	6.98	
30	45		Cum	1	15.00	2.90	0.15	6.53	
45	52		Cum	1	7.00	2.65	0.15	2.78	
		Cross Road 8							
0	15		Cum	1	15.00	2.45	0.15	5.51	
15	30		Cum	1	15.00	2.82	0.15	6.33	
30	34.7		Cum	1	4.70	2.93	0.15	2.07	
		Cross Road 9							
0	15		Cum	1	15.00	3.10	0.15	6.98	
15	30		Cum	1	15.00	3.15	0.15	7.09	
30	45		Cum	1	15.00	3.12	0.15	7.01	
45	50.2		Cum	1	5.20	3.24	0.15	2.53	
		Cross Road 10							
0	15		Cum	1	15.00	3.40	0.15	7.65	
15	30		Cum	1	15.00	3.25	0.15	7.31	
30	47.5		Cum	1	17.50	3.30	0.15	8.66	
		Cross Road 11							
0	15		Cum	1	15.00	3.00	0.15	6.75	
15	30		Cum	1	15.00	2.70	0.15	6.08	
30	41.7		Cum	1	11.70	3.35	0.15	5.88	
		Varada Raj nagar 2nd Main							
0	30		Cum	1	30.00	5.80	0.15	26.10	
30	60		Cum	1	30.00	5.50	0.15	24.75	
60	90		Cum	1	30.00	5.45	0.15	24.53	
90	120		Cum	1	30.00	5.55	0.15	24.98	
120	150		Cum	1	30.00	5.35	0.15	24.08	
150	178.7		Cum	1	28.70	5.20	0.15	22.39	

DRAPRASAD CONSULTANTS BANGALORE

Contractor PMC Assistant Engineer Assistant Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Improvements to roads and drains at Mariyamma Block and surrounding areas in ward no.11 in Kuvempunagar

PRE MEASUREMENT SHEET

FIRST and FINAL BILL

CLIENT:Executive Engineer, Karnataka Rural infrastructure development Ltd #280, 59th Cross road, 17th 'C'Main Road 3rd Y Block, Rajajinagara, Bangalore-560010

Chainage		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
		Devappa Block							
		Cross Road							
0	18.5		Cum	1	18.50	3.55	0.15	9.85	
18.5	20.3		Cum	1	0.00	0.00	0.00	0.00	
20.3	35.3		Cum	1	15.00	3.35	0.15	7.54	
35.3	52.3		Cum	1	17.00	3.30	0.15	8.42	
52.3	67.3		Cum	1	15.00	3.60	0.15	8.10	
67.3	79		Cum	1	11.70	4.15	0.15	7.28	
							TOTAL	**397.17**	

RAPRASAD CONSULTANTS BANGALORE

Contactor PMC Assistant Engineer Assistant Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Improvements to roads and drains at Mariyamma Block and surrounding areas in ward no.11 in Kuvempunagar

PRE MEASUREMENT SHEET

FIRST and FINAL BILL

CLIENT:Executive Engineer, Karnataka Rural infrastructure development Ltd #280, 59th Cross road, 17th 'C'Main Road 3rd Y Block, Rajajinagara, Bangalore-560010

Chainage		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
Item no.07		Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. and as per the directions of the Engineer in charge							
Measurements Taken On :									
		Cross Road 4							
		LHS							
0	15		Cum	1	15.00	0.90	0.15	2.03	
15	30		Cum	1	15.00	0.90	0.15	2.03	
30	45		Cum	1	15.00	0.90	0.15	2.03	
45	56.3		Cum	1	11.30	0.90	0.15	1.53	
		Cross Road 5							
		LHS							
0	15		Cum	1	15.00	0.90	0.15	2.03	
15	30		Cum	1	15.00	0.90	0.15	2.03	
30	42		Cum	1	12.00	0.90	0.15	1.62	
		RHS							
0	15		Cum	1	15.00	0.90	0.15	2.03	
15	30		Cum	1	15.00	0.90	0.15	2.03	
30	43		Cum	1	13.00	0.90	0.15	1.76	
		Main Road							
		LHS							
0	15		Cum	1	15.00	1.10	0.15	2.48	
15	30.8		Cum	1	15.80	1.10	0.15	2.61	
		Main Road Dead End							
		Lhs							
0	15		Cum	1	15.00	1.10	0.15	2.48	
15	30		Cum	1	15.00	1.10	0.15	2.48	
30	44		Cum	1	14.00	1.10	0.15	2.31	

VIDYAPRASAD CONSULTANTS BANGALORE

Contactor PMC Assistant Engineer Assistant Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Improvements to roads and drains at Mariyamma Block and surrounding areas in ward no.11 in Kuvempunagar

PRE MEASUREMENT SHEET

FIRST and FINAL BILL

CLIENT:Executive Engineer, Karnataka Rural infrastructure development Ltd #280, 59th Cross road, 17th 'C'Main Road 3rd Y Block, Rajajinagara, Bangalore-560010

Chainage		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
		Rhs							
0	18		Cum	1	18.00	1.10	0.15	2.97	
23.9	42.3	18 to 23.9 Culvert	Cum	1	18.40	1.10	0.15	3.04	
		Devappa Block							
		Cross road -1							
0	15		Cum	1	15.00	0.90	0.15	2.03	
15	30		Cum	1	15.00	0.90	0.15	2.03	
30	45		Cum	1	15.00	0.90	0.15	2.03	
45	60		Cum	1	15.00	0.90	0.15	2.03	
60	73.5		Cum	1	13.50	0.90	0.15	1.82	
		Cross road -2							
0	15		Cum	1	15.00	0.90	0.15	2.03	
15	30		Cum	1	15.00	0.90	0.15	2.03	
30	45		Cum	1	15.00	0.90	0.15	2.03	
45	60		Cum	1	15.00	0.90	0.15	2.03	
60	73.5		Cum	1	13.50	0.90	0.15	1.82	
							TOTAL	57.27	

PRASAD CONSULTANTS BANGALORE

Contractor PMC Assistant Engineer Assistant Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Improvements to roads and drains at Mariyamma Block and surrounding areas in ward no.11 in Kuvempunagar

PRE MEASUREMENT SHEET

FIRST and FINAL BILL

CLIENT:Executive Engineer, Karnataka Rural infrastructure development Ltd #280, 59th Cross road, 17th 'C'Main Road 3rd Y Block, Rajajinagara, Bangalore-560010

Chainage		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
Item no.09		Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. and as per the directions of the Engineer in charge							
Measurement taken on									
			Tonne	From steel calculation sheet				7.91	
							TOTAL	7.91	

PRAPRASAD CONSULTANTS BANGALORE

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Improvements to roads and drains at Mariyamma Block and surrounding areas in ward no.11 in Kuvempunagar

PRE MEASUREMENT SHEET

FIRST AND FINAL BILL

STEEL CALCULATION

CLIENT:Executive Engineer, Karnataka Rural infrastructure development Ltd #280, 59th Cross road, 17th 'C'Main Road 3rd Y Block, Rajajinagara, Bangalore-560010

Sl NO	Description	Nos	BAR DIA	No. Bars	Total No. bars	Length	Total Length	Weight	Total weight
			mm			m	m	kg/m	Kg's
Item no.09	Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. and as per the directions of the Engineer in charge								
	Measurements Taken On;								
	For RCC Drain								
	Cross Road 4								
	Main Bars (#10@160 c/c)	1	10	353	353	1.95	688.11	0.616538	424.24
	Distribution(13-#8)	1	8	13	13	56.30	731.90	0.394584	288.80
	Cross Road 5								
	LHS								
	Main Bars (#10@160 c/c)	1	10	264	264	2.25	592.88	0.616538	365.53
	Distribution(16-#8)	1	8	16	16	42.00	672.00	0.394584	265.16
	RHS								
	Main Bars (#10@160 c/c)	1	10	270	270	2.25	606.94	0.616538	374.20
	Distribution(16-#8)	1	8	16	16	43.00	688.00	0.394584	271.47
	Main Road								
	LHS								
	Main Bars (#10@160 c/c)	1	10	194	194	2.60	503.10	0.616538	310.18
	Distribution(18-#8)	1	8	18	18	30.80	554.40	0.394584	218.76
	Main Road Dead End								
	LHS								
	Main Bars (#12@160 c/c)	1	12	276	276	2.70	745.20	0.887814	661.60
	Distribution(18-#10)	1	10	18	18	44.00	792.00	0.616538	488.30
	RHS								
	Main Bars (#12@160 c/c)	1	12	229	229	2.70	616.95	0.887814	547.74
	Distribution(18-#10)	1	10	18	18	36.40	655.20	0.616538	403.96

SRAPRASAD CONSULTANTS BANGALORE

PMC Assistant Engineer Assistant Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Improvements to roads and drains at Mariyamma Block and surrounding areas in ward no.11 in Kuvempunagar

PRE MEASUREMENT SHEET

FIRST AND FINAL BILL

STEEL CALCULATION

CLIENT:Executive Engineer, Karnataka Rural infrastructure development Ltd #280, 59th Cross road, 17th 'C'Main Road 3rd Y Block, Rajajinagara, Bangalore-560010

Sl NO	Description	Nos	BAR DIA	No. Bars	Total No. bars	Length	Total Length	Weight	Total weight
			mm			m	m	kg/m	Kg's
	Devappa Block								
	Cross road -1								
	Main Bars (#12@150 c/c)	1	12	460	460	2.25	1035.84	0.887814	919.64
	Distribution(16-#10)	1	10	16	16	73.50	1176.00	0.616538	725.05
	Cross road -2								
	Main Bars (#12@150 c/c)	1	12	460	460	2.25	1035.84	0.887814	919.64
	Distribution(16-#10)	1	10	16	16	73.50	1176.00	0.616538	725.05
								TOTAL QTY IN KG'S	**7909.30**
								TOTAL QTY IN TONNE	**7.91**

DRAPRASAD CONSULTANTS BANGALORE

Contractor PMC Assistant Engineer Assistant Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Improvements to roads and drains at Mariyamma Block and surrounding areas in ward no.11 in Kuvempunagar

PRE MEASUREMENT SHEET

FIRST and FINAL BILL

CLIENT:Executive Engineer, Karnataka Rural infrastructure development Ltd #280, 59th Cross road, 17th 'C'Main Road 3rd Y Block, Rajajinagara, Bangalore-560010

Chainage		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
Item no.11		Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. and as per the directions of the Engineer in charge							
Measurements Taken On :									
		Cross Road 1				Avg			
0	15		Cum	1	15.00	2.50	0.20	7.50	
15	30		Cum	1	15.00	2.45	0.20	7.35	
30	38.7		Cum	1	8.70	3.35	0.20	5.83	
		Cross Road 2							
0	15		Cum	1	15.00	3.40	0.20	10.20	
15	30		Cum	1	15.00	3.00	0.20	9.00	
30	45		Cum	1	15.00	2.55	0.20	7.65	
45	62		Cum	1	17.00	3.00	0.20	10.20	
		Cross Road 6							
0	15		Cum	1	15.00	2.48	0.20	7.43	
15	30		Cum	1	15.00	2.55	0.20	7.65	
30	40.2		Cum	1	10.20	2.73	0.20	5.56	
		Cross Road 7							
0	15		Cum	1	15.00	2.98	0.20	8.93	
15	30		Cum	1	15.00	3.10	0.20	9.30	
30	45		Cum	1	15.00	2.90	0.20	8.70	
45	52		Cum	1	7.00	2.65	0.20	3.71	
		Cross Road 8							
0	15		Cum	1	15.00	2.45	0.20	7.35	
15	30		Cum	1	15.00	2.82	0.20	8.45	
30	34.7		Cum	1	4.70	2.93	0.20	2.75	
		Cross Road 9							
0	15		Cum	1	15.00	3.10	0.20	9.30	
15	30		Cum	1	15.00	3.15	0.20	9.45	
30	45		Cum	1	15.00	3.12	0.20	9.35	
45	50.2		Cum	1	5.20	3.24	0.20	3.37	

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Improvements to roads and drains at Mariyamma Block and surrounding areas in ward no.11 in Kuvempunagar

PRE MEASUREMENT SHEET

FIRST and FINAL BILL

CLIENT:Executive Engineer, Karnataka Rural infrastructure development Ltd #280, 59th Cross road, 17th 'C'Main Road 3rd Y Block, Rajajinagara, Bangalore-560010

Chainage		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
		Cross Road 10							
0	15		Cum	1	15.00	3.40	0.20	10.20	
15	30		Cum	1	15.00	3.25	0.20	9.75	
30	47.5		Cum	1	17.50	3.30	0.20	11.55	
		Cross Road 11							
0	15		Cum	1	15.00	3.00	0.20	9.00	
15	30		Cum	1	15.00	2.70	0.20	8.10	
30	41.7		Cum	1	11.70	3.35	0.20	7.84	
							TOTAL	215.45	

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Improvements to roads and drains at Mariyamma Block and surrounding areas in ward no.11 in Kuvempunagar

PRE MEASUREMENT SHEET

FIRST and FINAL BILL

CLIENT:Executive Engineer, Karnataka Rural infrastructure development Ltd #280, 59th Cross road, 17th 'C'Main Road 3rd Y Block, Rajajinagara, Bangalore-560010

Chainage		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
Item no.12		Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by road roller attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM of machineries complete as per specifications. and as per the directions of the Engineer in charge							
Measurements Taken On :									
		Varada Raj nagar 2nd Main				Avg			
0	30		Sqm	1	30.00	5.80		174.00	
30	60		Sqm	1	30.00	5.50		165.00	
60	90		Sqm	1	30.00	5.45		163.50	
90	120		Sqm	1	30.00	5.55		166.50	
120	150		Sqm	1	30.00	5.35		160.50	
150	178.7		Sqm	1	28.70	5.20		149.24	
							TOTAL	978.74	

INDRAPRASAD CONSULTANTS BANGALORE

Contactor PMC Assistant Engineer Assistant Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Improvements to roads and drains at Mariyamma Block and surrounding areas in ward no.11 in Kuvempunagar

PRE MEASUREMENT SHEET

FIRST and FINAL BILL

CLIENT:Executive Engineer, Karnataka Rural infrastructure development Ltd #280, 59th Cross road, 17th 'C'Main Road 3rd Y Block, Rajajinagara, Bangalore-560010

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
Item no.13		Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications and as per the directions of the Engineer in charge							
Measurements Taken On :									
		Cross Road 1				Avg			
0	15		Cum	1	15.00	2.50	0.15	5.63	
15	30		Cum	1	15.00	2.45	0.15	5.51	
30	38.7		Cum	1	8.70	3.35	0.15	4.37	
		Cross Road 2							
0	15		Cum	1	15.00	3.40	0.15	7.65	
15	30		Cum	1	15.00	3.00	0.15	6.75	
30	45		Cum	1	15.00	2.55	0.15	5.74	
45	62		Cum	1	17.00	3.00	0.15	7.65	
		Cross Road 6							
0	15		Cum	1	15.00	2.48	0.15	5.57	
15	30		Cum	1	15.00	2.55	0.15	5.74	
30	40.2		Cum	1	10.20	2.73	0.15	4.17	
		Cross Road 7							
0	15		Cum	1	15.00	2.98	0.15	6.69	
15	30		Cum	1	15.00	3.10	0.15	6.98	
30	45		Cum	1	15.00	2.90	0.15	6.53	
45	52		Cum	1	7.00	2.65	0.15	2.78	
		Cross Road 8							
0	15		Cum	1	15.00	2.45	0.15	5.51	
15	30		Cum	1	15.00	2.82	0.15	6.33	
30	34.7		Cum	1	4.70	2.93	0.15	2.07	
		Cross Road 9							
0	15		Cum	1	15.00	3.10	0.15	6.98	
15	30		Cum	1	15.00	3.15	0.15	7.09	
30	45		Cum	1	15.00	3.12	0.15	7.01	
45	50.2		Cum	1	5.20	3.24	0.15	2.53	

PRAPRAS ROAD CONSULTANTS BANGALORE

Contactor PMC Assistant Engineer Assistant Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Improvements to roads and drains at Mariyamma Block and surrounding areas in ward no.11 in Kuvempunagar

PRE MEASUREMENT SHEET

FIRST and FINAL BILL

CLIENT:Executive Engineer, Karnataka Rural infrastructure development Ltd #280, 59th Cross road, 17th 'C'Main Road 3rd Y Block, Rajajinagara, Bangalore-560010

Chainage		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
		Cross Road 10							
0	15		Cum	1	15.00	3.40	0.15	7.65	
15	30		Cum	1	15.00	3.25	0.15	7.31	
30	47.5		Cum	1	17.50	3.30	0.15	8.66	
		Cross Road 11							
0	15		Cum	1	15.00	3.00	0.15	6.75	
15	30		Cum	1	15.00	2.70	0.15	6.08	
30	41.7		Cum	1	11.70	3.35	0.15	5.88	
		Varada Raj nagar 2nd Main							
0	30		Cum	1	30.00	5.80	0.15	26.10	
30	60		Cum	1	30.00	5.50	0.15	24.75	
60	90		Cum	1	30.00	5.45	0.15	24.53	
90	120		Cum	1	30.00	5.55	0.15	24.98	
120	150		Cum	1	30.00	5.35	0.15	24.08	
150	178.7		Cum	1	28.70	5.20	0.15	22.39	
		Devappa Block							
		Cross Road							
0	18.5		Cum	1	18.50	3.55	0.15	9.85	
18.5	20.3		Cum	1	0.00	0.00	0.00	0.00	
20.3	35.3		Cum	1	15.00	3.35	0.15	7.54	
35.3	52.3		Cum	1	17.00	3.30	0.15	8.42	
52.3	67.3		Cum	1	15.00	3.60	0.15	8.10	
67.3	79		Cum	1	11.70	4.15	0.15	7.28	
							TOTAL	349.59	

DRAPRASAD CONSULTANTS BANGALORE

Contactor PMC Assistant Engineer Assistant Executive Engineer